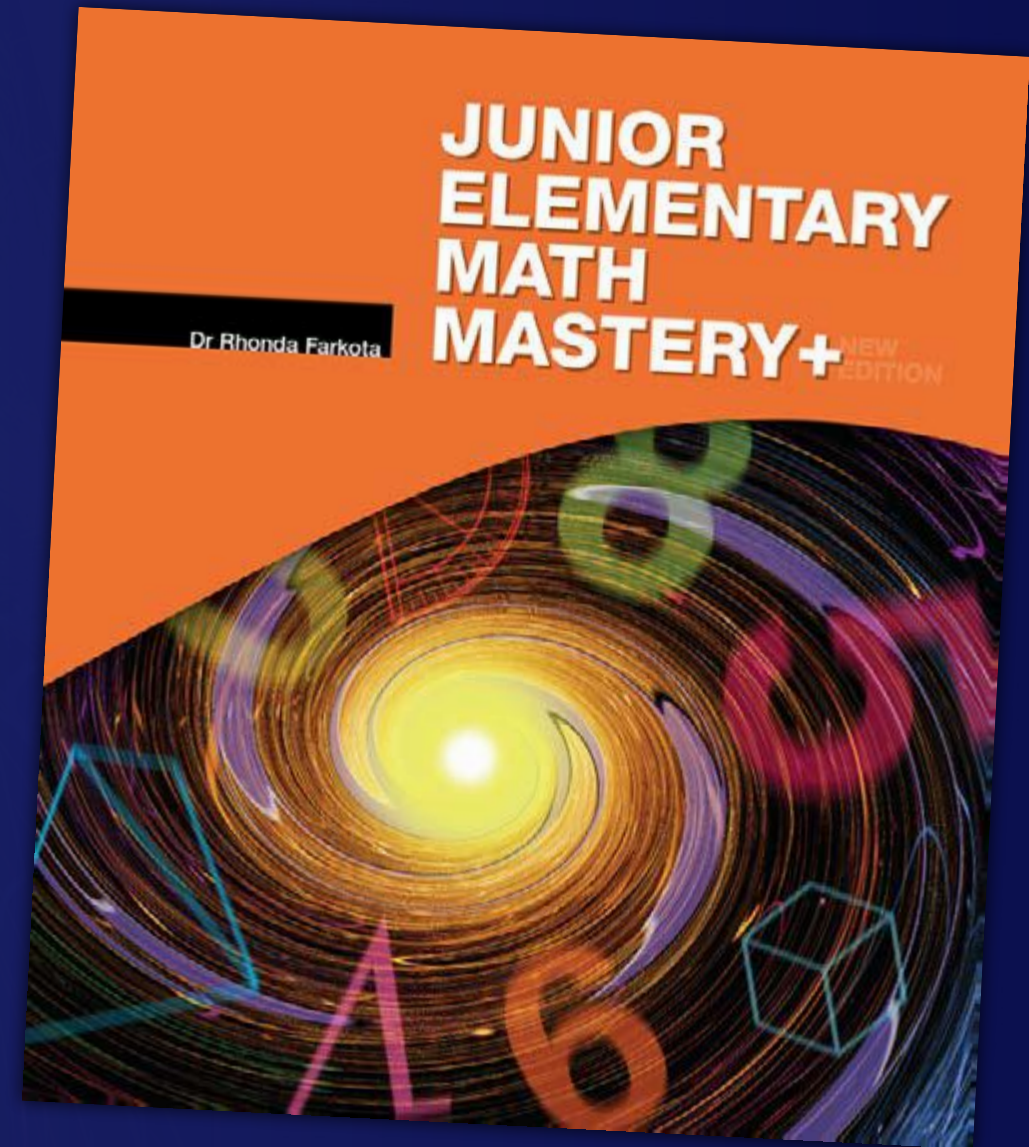


Electronic Reference Stimuli (ERS)

Lessons 1–5

To close Full Screen mode,
press **Ctrl+L (PC)** or **Cmd+L (Mac)** or **Esc**.

To open Full Screen mode,
press **Ctrl+L (PC)** or **Cmd+L (Mac)**.





LETTER TO STUDENT

Dear Student

This is your myJEMM+ data workbook. Over the course of the JEMM+ program it will show how well your abilities in mathematics are developing. It is allocated to you, and you alone, so please fill in your details on the back cover.

Here's an explanation of the myJEMM+ data components.

Workbook components

Daily Data: Daily, you record and summarise your own data. For incorrect responses, classified as Bugs, you shade the BugKey in the corresponding row on the BugBoard. This allows you and your teacher to monitor your progress.

For example, see myJEMM+ data pages 2-9.

Visual representation: This provides you with base knowledge and daily practice in reading and interpreting data to prepare you for the Round task.

For example, see myJEMM+ data pages 2-9.

Round task: JEMM+ is structured into 24 rounds each consisting of 5 lessons. At the end of each round you read, interpret and complete tables and graphs building on the Visual representation knowledge you have acquired.

For example, see myJEMM+ data pages 10-11.

Self-evaluation: After each group of 20 lessons you self-evaluate and reflect on your growth in knowledge, understanding and achievement.

For example, see myJEMM+ data pages 12-13.

JEMM+athon: To demonstrate your BugFree status you do a JEMM+athon, which consists of questions you have already done. This will help assess how well you have consolidated your knowledge.

For example, see myJEMM+ data pages 14-15.

JEMM+athon to BugFree: You convert your scores to percentages to determine your BugFree status. This helps you to concentrate on personal growth rather than comparing yourself with other students.

For example, see myJEMM+ data pages 44-47.

Challenge: This is designed to stimulate your thinking processes. It requires you to reflect on what you have learned.

See myJEMM+ data pages 94-97.

Club BugFree Award: This is awarded when you score all correct responses over a number of consecutive lessons (to be decided by your teacher).

See myJEMM+ data pages 99-103.

Other Awards: Accurate marking; Neat workbook.

See myJEMM+ data pages 105-111.

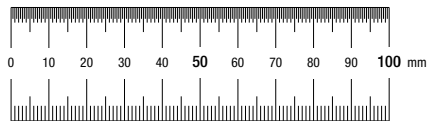
Your myJEMM+ data workbook is an important academic journal that records your progress in mathematics. I hope you will enjoy using it, and take pride in keeping it accurate and true. You never know, you might like to share it with family and friends or perhaps even me.

Best Wishes
Dr Rhonda Farkota

WORKSPACE

Lesson 1	
Lesson 2	
Lesson 3	
Lesson 4	
Lesson 5	

Date
Round 1
Question 1
Question 2
Question 3
Question 4
Question 5
Question 6
Question 7
Question 8
Question 9
Question 10
Question 11
Question 12
Question 13
Question 14
Question 15
My score
Out of

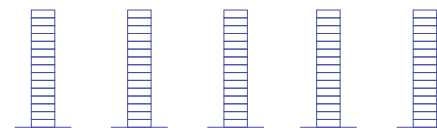


For each Lesson the whole of my data is represented in a bar made of 15 rectangles. From the baseline, I summarise my data by shading the number of rectangles equal to my score.

DAILY DATA

	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	BugBoard					
						1	2	3	4	5	
1											1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9											9
10											10
11											11
12											12
13											13
14											14
15											15
	15	15	15	15	15						

Visual representation



After recording and summarising my data for these 5 lessons, I go to **page 10** and complete my Task for this Round.

Contents

Lesson 1	5
Lesson 2	21
Lesson 3	37
Lesson 4	53
Lesson 5	69

Lesson 1

Lesson 1

Question 1

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

Lesson 1

Question 2

$$\begin{array}{r} \text{addend} \\ \hline 7 \\ \hline \end{array} + \begin{array}{r} \text{addend} \\ \hline 3 \\ \hline \end{array} = \begin{array}{r} \text{sum} \\ \hline 10 \\ \hline \end{array}$$

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 1

Question 3

				difference
10	-	7	=	3
72	-	70	=	2
89	-	80	=	9
92	-	91	=	1

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 1

Question 4

	H	T	Ones
$7 \times 10 =$		7	0
$70 \times 10 =$	7	0	0
$75 \times 10 =$	7	5	0

1	2	3	4	5	6	7	8	9	10	10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10

Lesson 1

Question 5

Figure 1



Figure 2



Figure 3



Lesson 1

Question 6

a

racecar

Hannah

5

33

161

Lesson 1

Question 7

A

--

B

--	--

C

--	--	--	--	--

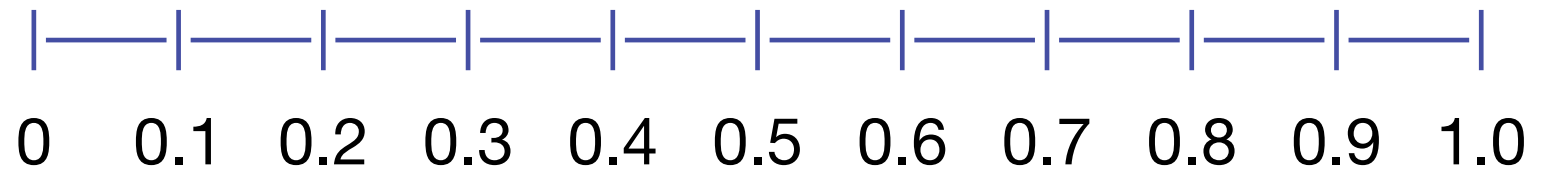
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Lesson 1

Question 8

whole number 5.2 value less than 1
decimal point ↑



Lesson 1

Question 9

Figure 1



Figure 2

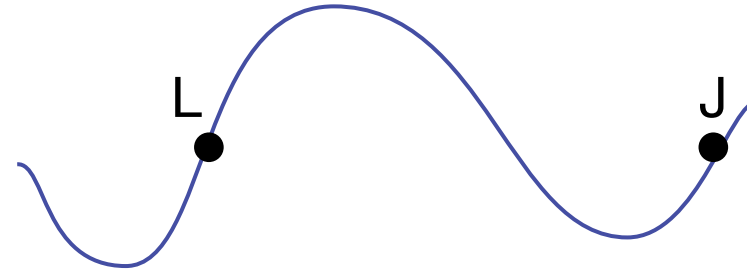


Figure 3



Figure 4

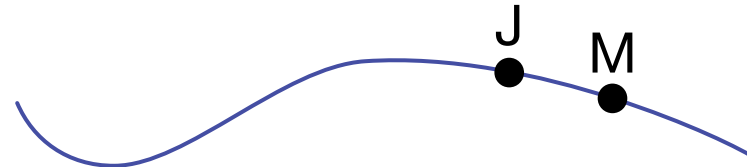


Figure 5



Lesson 1

Question 10

Figure 1

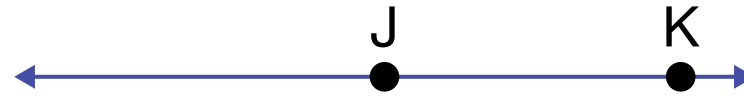


Figure 2

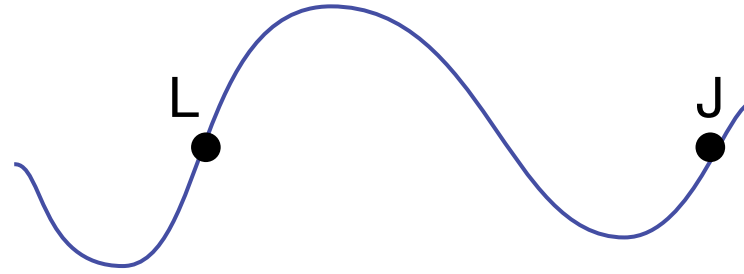


Figure 3



Figure 4

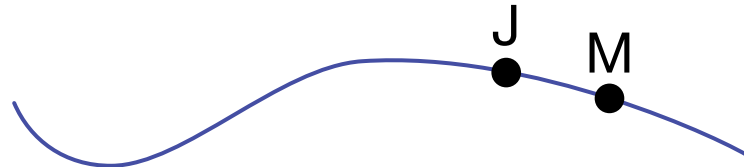


Figure 5









Lesson 1

Question 11

Dog name		Dog name	
Name	Tally	Name	Frequency
Barney		Barney	4
Bella	###	Bella	
Coco	### ##	Coco	
Dixie	###	Dixie	9
Dodger	### ###	Dodger	
Leroy	###	Leroy	
Max	###	Max	6
Rocco		Rocco	

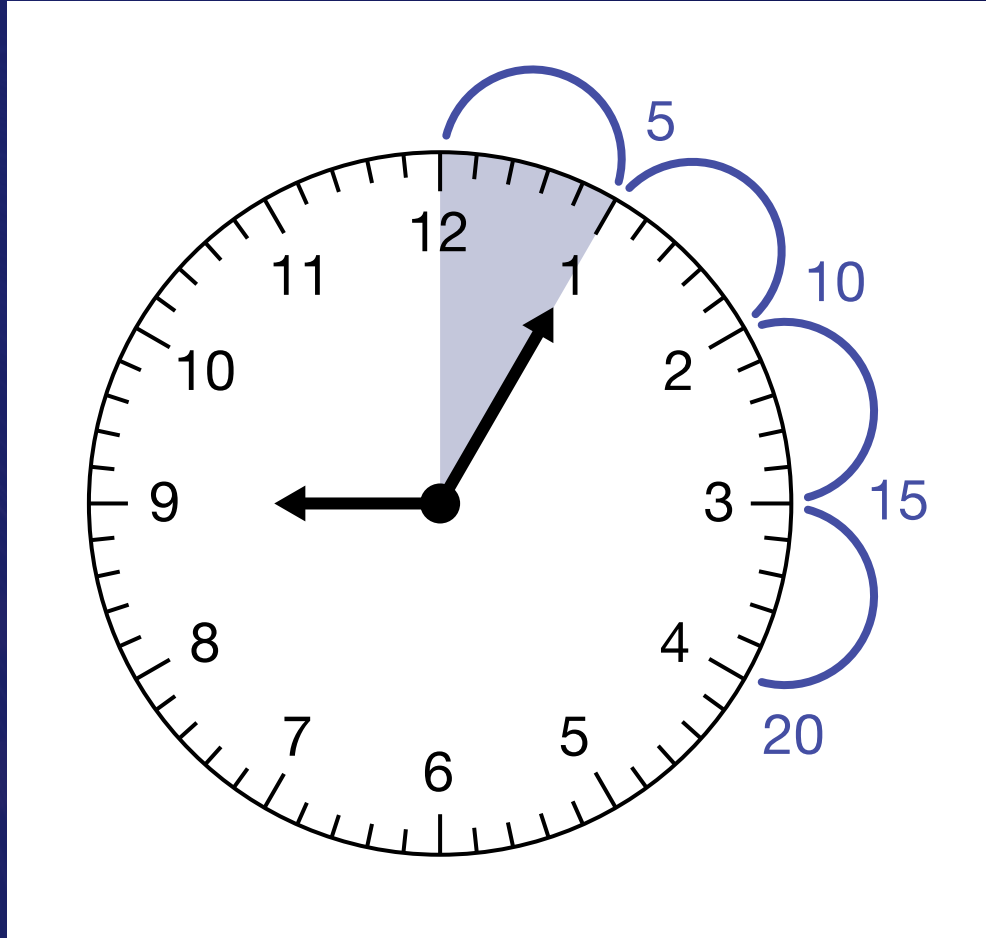
Lesson 1

Question 12

Number of coins in set	Coin value		Set value
5	\$2		\$10
10	\$1		\$10
20	50c		\$10
50	20c		\$10
100	10c		\$10
200	5c		\$10

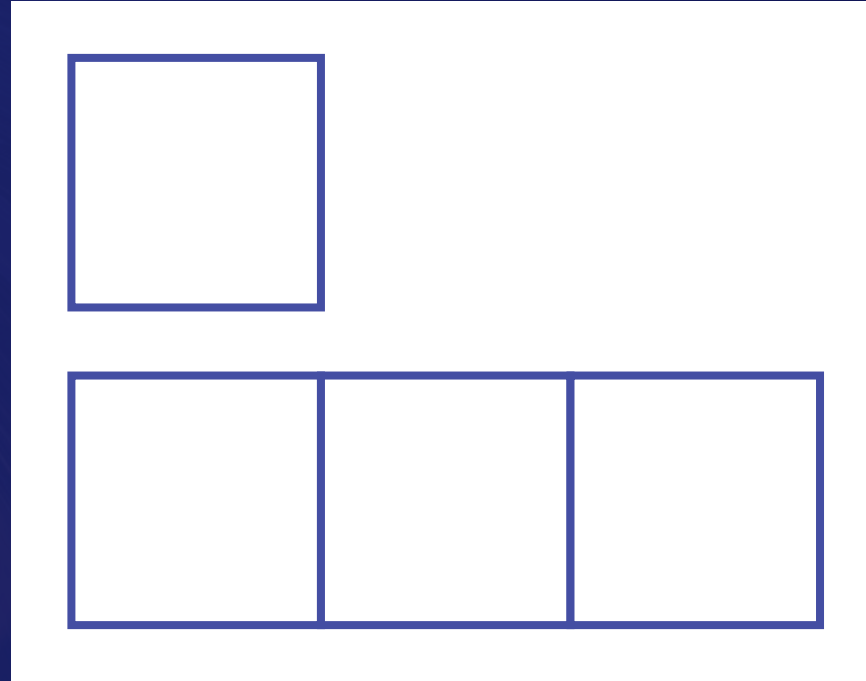
Lesson 1

Question 13



Lesson 1

Question 14



Lesson 1

Question 15

12

Lesson 2

Lesson 2

Question 1

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

Lesson 2

Question 2

$$\begin{array}{r} \text{addend} \\ \hline 7 \\ \hline \end{array} + \begin{array}{r} \text{addend} \\ \hline 3 \\ \hline \end{array} = \begin{array}{r} \text{sum} \\ \hline 10 \\ \hline \end{array}$$

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 2

Question 3

				difference
10	-	7	=	3
72	-	70	=	2
89	-	80	=	9
92	-	91	=	1

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 2

Question 4

	H	T	Ones
$7 \times 10 =$		7	0
$70 \times 10 =$	7	0	0
$75 \times 10 =$	7	5	0

1	2	3	4	5	6	7	8	9	10	10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10

Lesson 2

Question 5

Figure 1



Figure 2



Figure 3



Lesson 2

Question 6

a

racecar

Hannah

5

33

161

Lesson 2

Question 7

A

--

B

--	--

C

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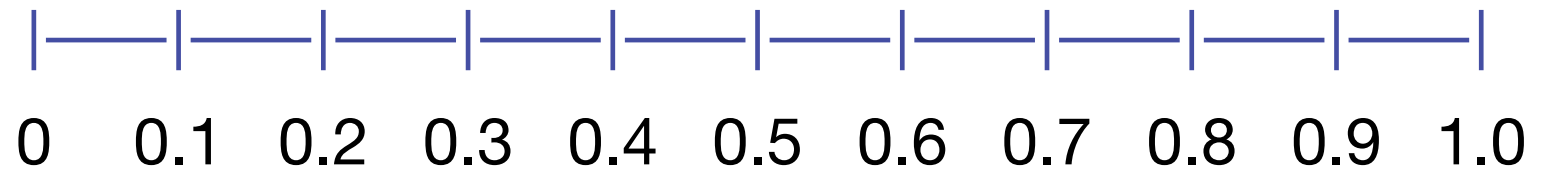
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Lesson 2

Question 8

whole number 5.2 value less than 1
decimal point ↑



Lesson 2

Question 9

Figure 1

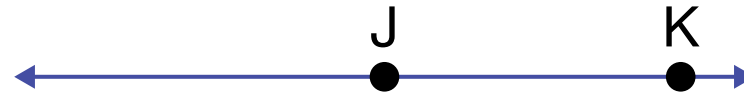


Figure 2

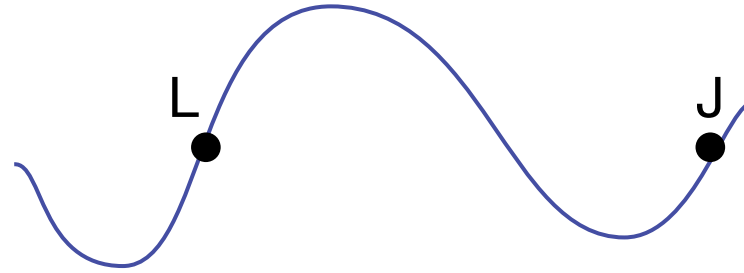


Figure 3



Figure 4

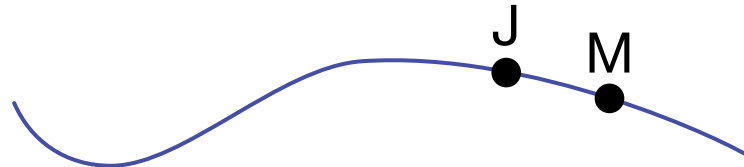


Figure 5



Lesson 2

Question 10

Figure 1

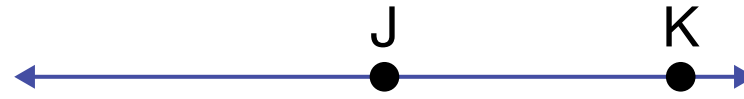


Figure 2

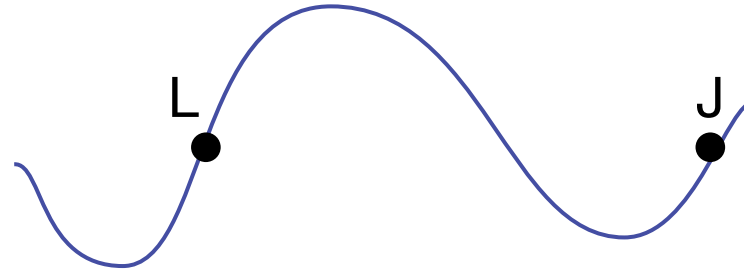


Figure 3



Figure 4

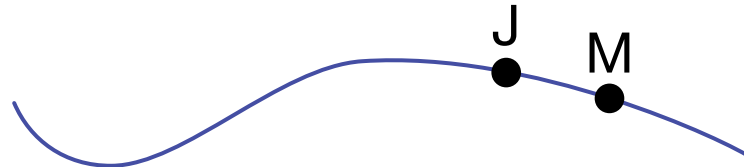


Figure 5









Lesson 2

Question 11

Dog name		Dog name	
Name	Tally	Name	Frequency
Barney		Barney	4
Bella	###	Bella	
Coco	### ##	Coco	
Dixie	###	Dixie	9
Dodger	### ###	Dodger	
Leroy	###	Leroy	
Max	###	Max	6
Rocco		Rocco	

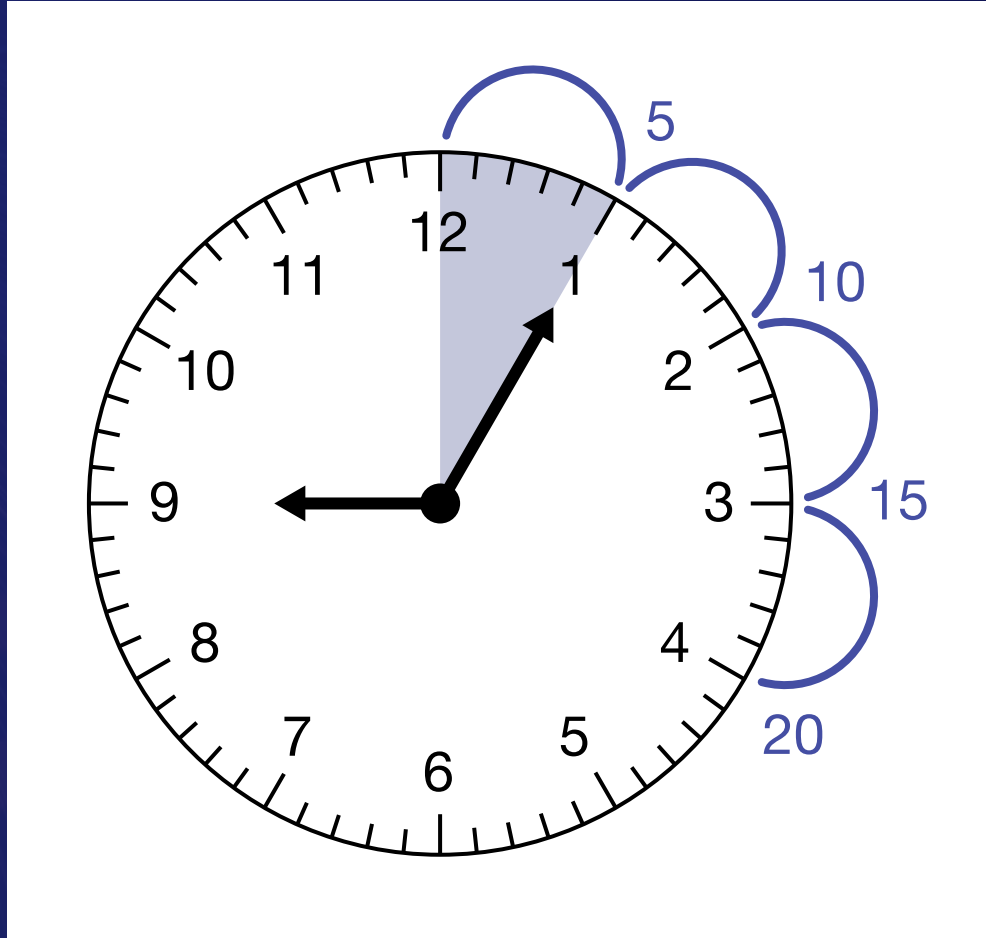
Lesson 2

Question 12

Number of coins in set	Coin value		Set value
5	\$2		\$10
10	\$1		\$10
20	50c		\$10
50	20c		\$10
100	10c		\$10
200	5c		\$10

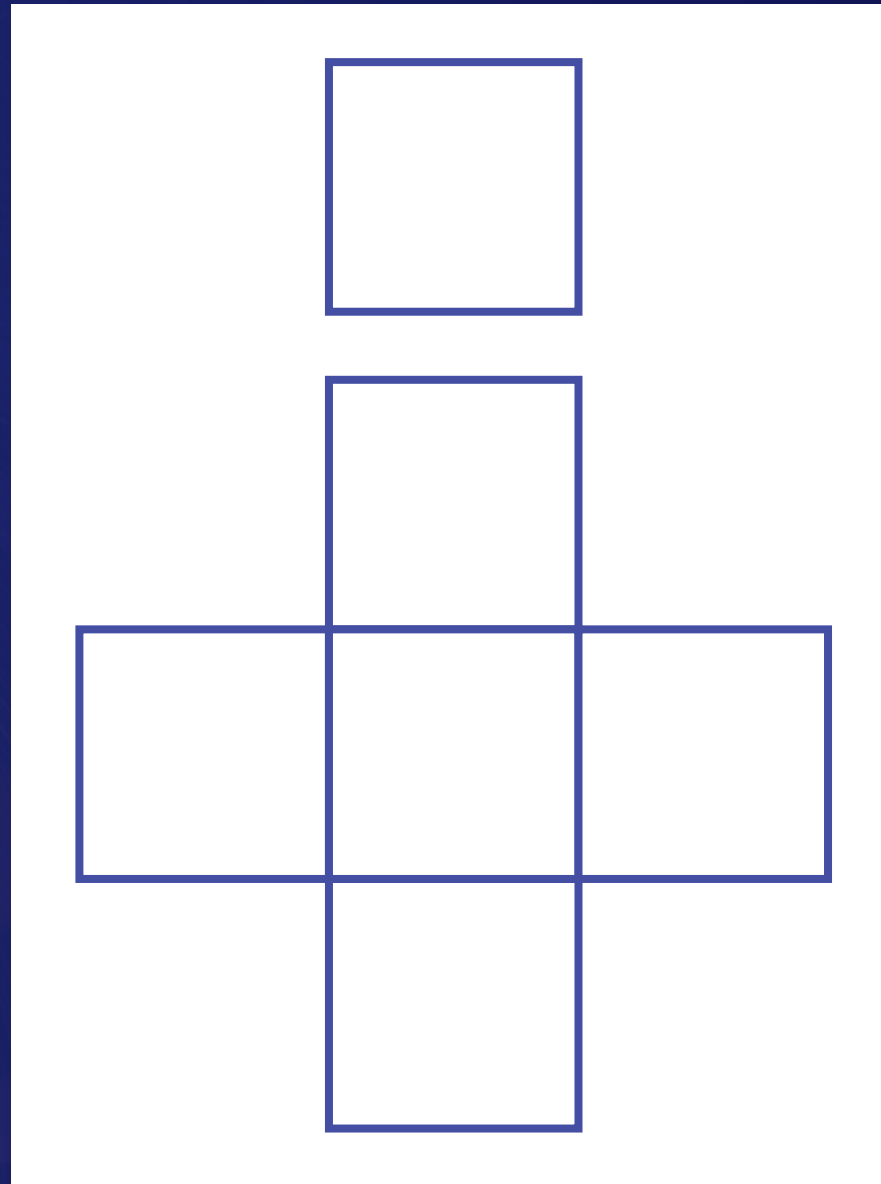
Lesson 2

Question 13



Lesson 2

Question 14



Lesson 2

Question 15

12

Lesson 3

Lesson 3

Question 1

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

Lesson 3

Question 2

$$\begin{array}{r} \text{addend} \\ \hline 7 \\ \hline \end{array} + \begin{array}{r} \text{addend} \\ \hline 3 \\ \hline \end{array} = \begin{array}{r} \text{sum} \\ \hline 10 \\ \hline \end{array}$$

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 3

Question 3

				difference
10	-	7	=	3
72	-	70	=	2
89	-	80	=	9
92	-	91	=	1

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 3

Question 4

	H	T	Ones
$7 \times 10 =$		7	0
$70 \times 10 =$	7	0	0
$75 \times 10 =$	7	5	0

1	2	3	4	5	6	7	8	9	10	10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10

Lesson 3

Question 5

Figure 1



Figure 2

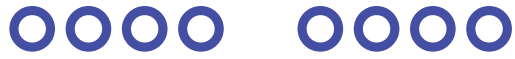


Figure 3



Lesson 3

Question 6

a

racecar

Hannah

5

33

161

Lesson 3

Question 7

A

--

B

--	--

C

--	--	--	--	--

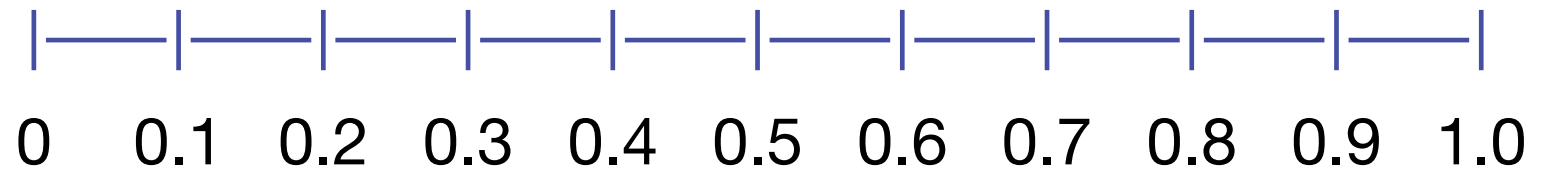
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Lesson 3

Question 8

whole number 5.2 value less than 1
decimal point ↑



Lesson 3

Question 9

Figure 1

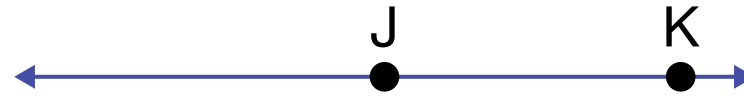


Figure 2

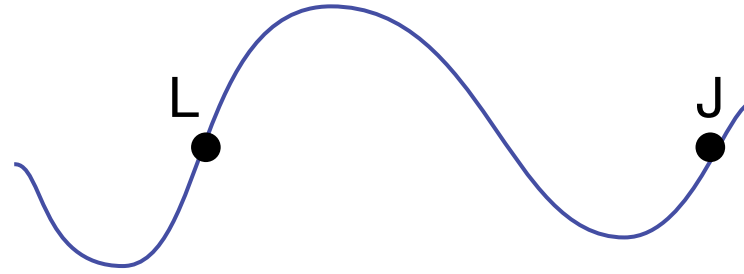


Figure 3



Figure 4

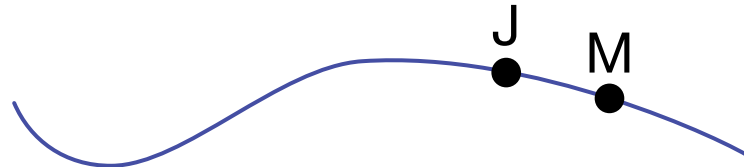


Figure 5



Lesson 3

Question 10

Figure 1

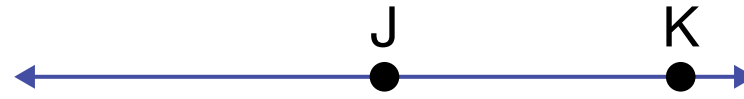


Figure 2

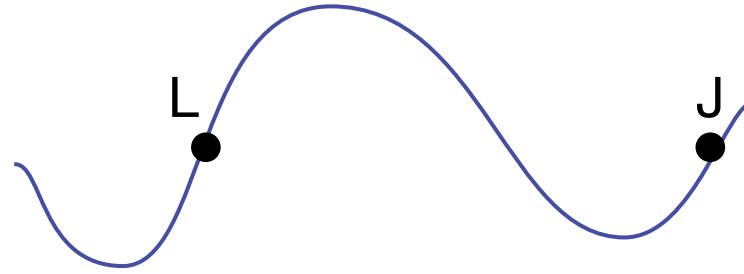


Figure 3



Figure 4

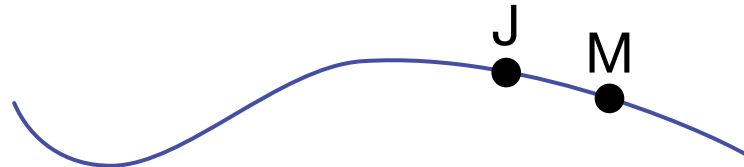


Figure 5









Lesson 3

Question 11

Dog name		Dog name	
Name	Tally	Name	Frequency
Barney		Barney	4
Bella	###	Bella	
Coco	### ##	Coco	
Dixie	###	Dixie	9
Dodger	### ###	Dodger	
Leroy	###	Leroy	
Max	###	Max	6
Rocco		Rocco	

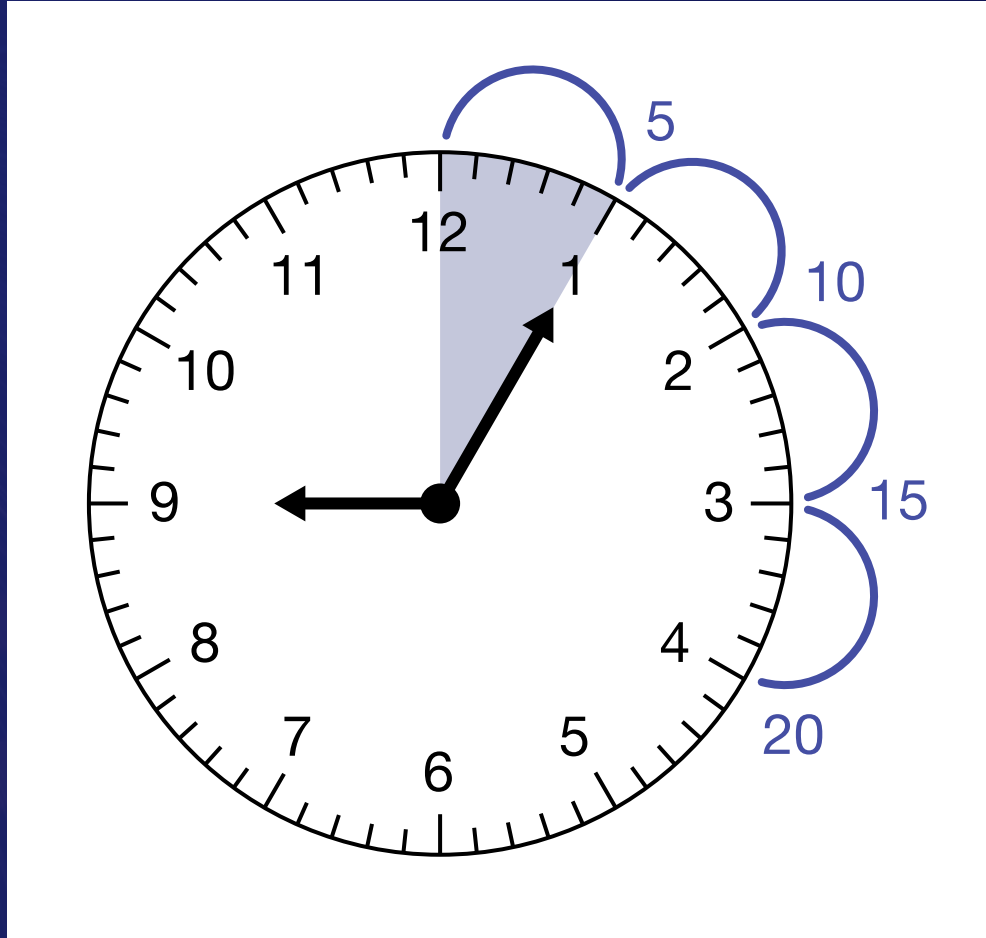
Lesson 3

Question 12

Number of coins in set	Coin value		Set value
5	\$2		\$10
10	\$1		\$10
20	50c		\$10
50	20c		\$10
100	10c		\$10
200	5c		\$10

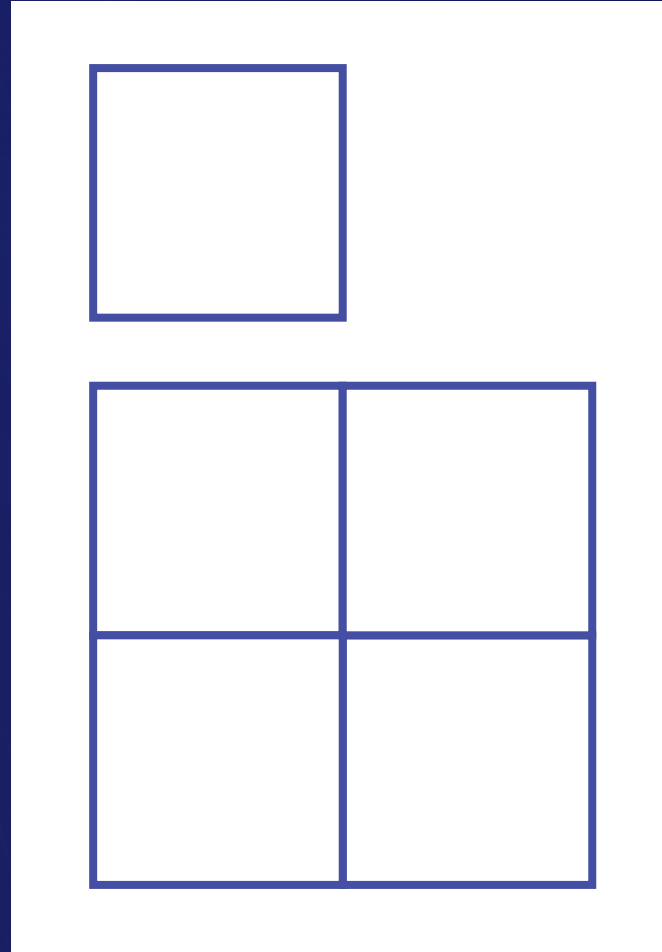
Lesson 3

Question 13



Lesson 3

Question 14



Lesson 3

Question 15

12

Lesson 4

Lesson 4

Question 1

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

Lesson 4

Question 2

$$\begin{array}{r} \text{addend} \\ \hline 7 \\ \hline \end{array} + \begin{array}{r} \text{addend} \\ \hline 3 \\ \hline \end{array} = \begin{array}{r} \text{sum} \\ \hline 10 \\ \hline \end{array}$$

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 4

Question 3

				difference
10	-	7	=	3
72	-	70	=	2
89	-	80	=	9
92	-	91	=	1

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 4

Question 4

	H	T	Ones
$7 \times 10 =$		7	0
$70 \times 10 =$	7	0	0
$75 \times 10 =$	7	5	0

1	2	3	4	5	6	7	8	9	10	10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10

Lesson 4

Question 5

Figure 1



Figure 2



Figure 3



Lesson 4

Question 6

a

racecar

Hannah

5

33

161

Lesson 4

Question 7

A

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B

--	--

C

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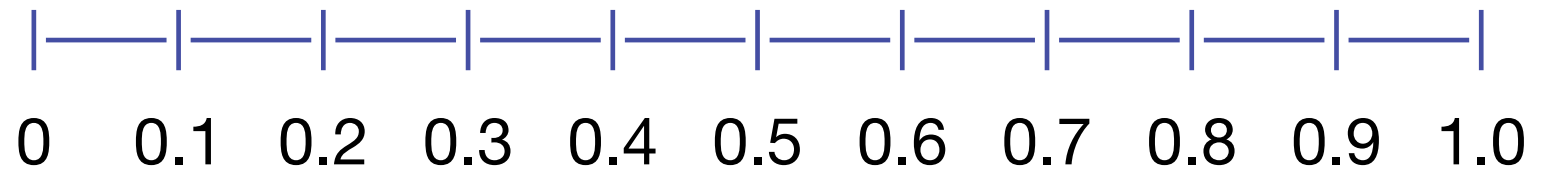
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Lesson 4

Question 8

whole number 5.2 value less than 1
decimal point ↑



Lesson 4

Question 9

Figure 1

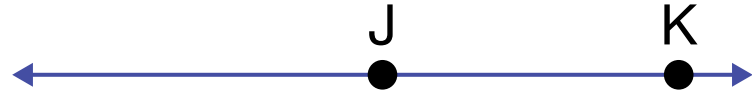


Figure 2

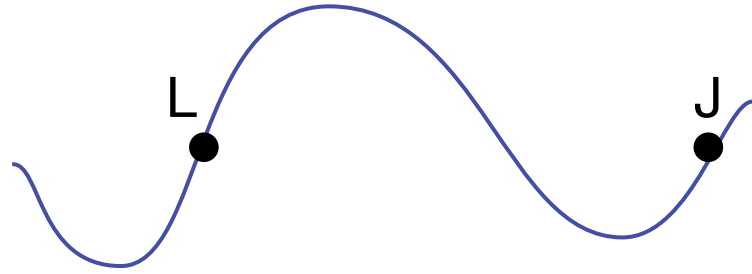


Figure 3



Figure 4

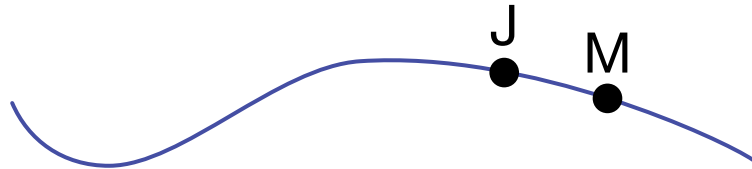


Figure 5



Lesson 4

Question 10

Figure 1

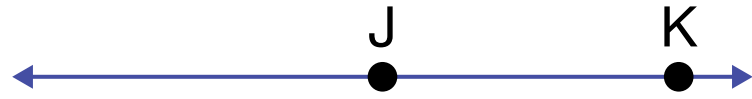


Figure 2

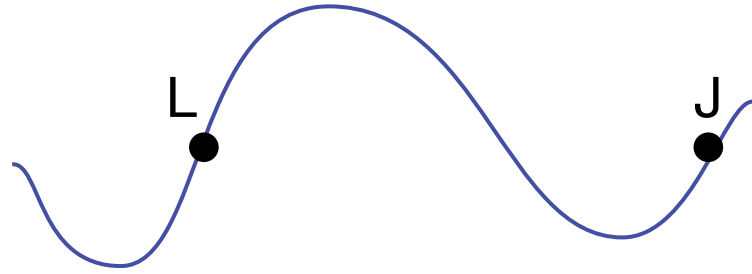


Figure 3



Figure 4

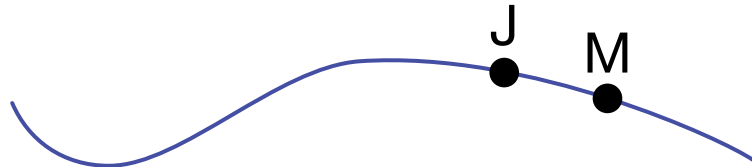


Figure 5









Lesson 4

Question 11

Dog name		Dog name	
Name	Tally	Name	Frequency
Barney		Barney	4
Bella	###	Bella	
Coco	### ##	Coco	
Dixie	###	Dixie	9
Dodger	### ###	Dodger	
Leroy	###	Leroy	
Max	###	Max	6
Rocco		Rocco	

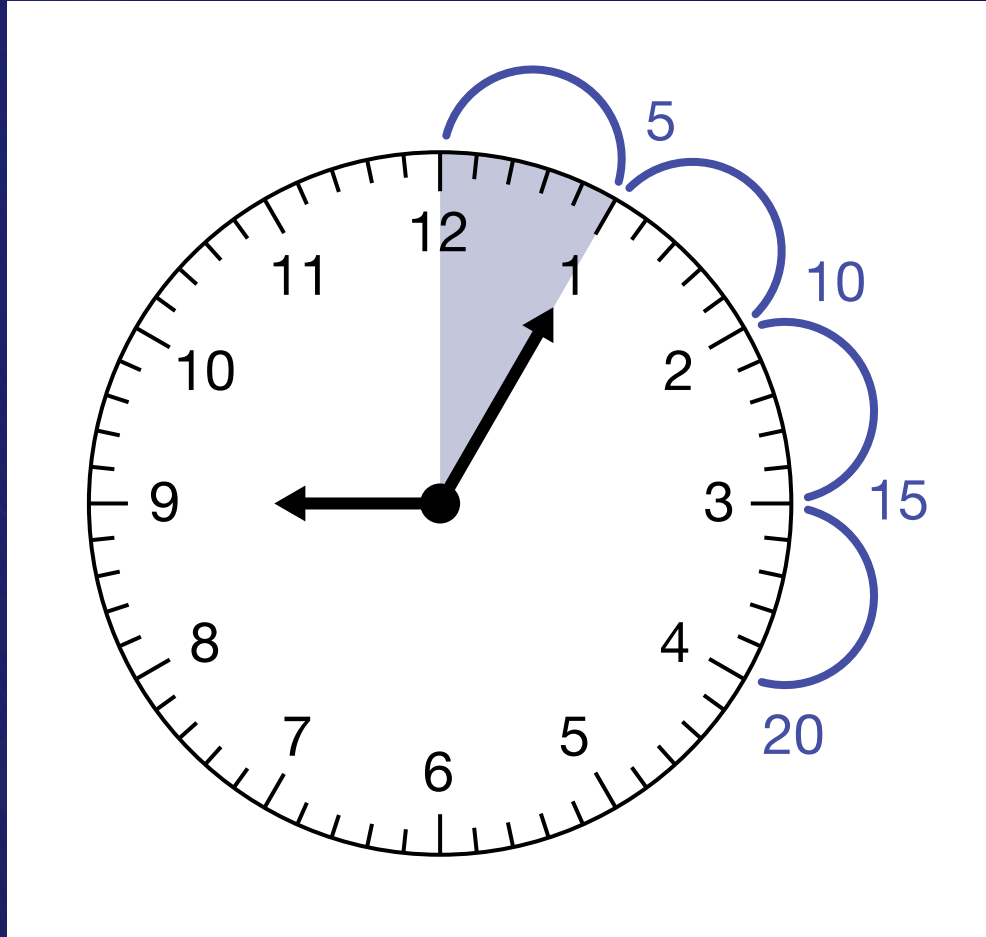
Lesson 4

Question 12

Number of coins in set	Coin value		Set value
5	\$2		\$10
10	\$1		\$10
20	50c		\$10
50	20c		\$10
100	10c		\$10
200	5c		\$10

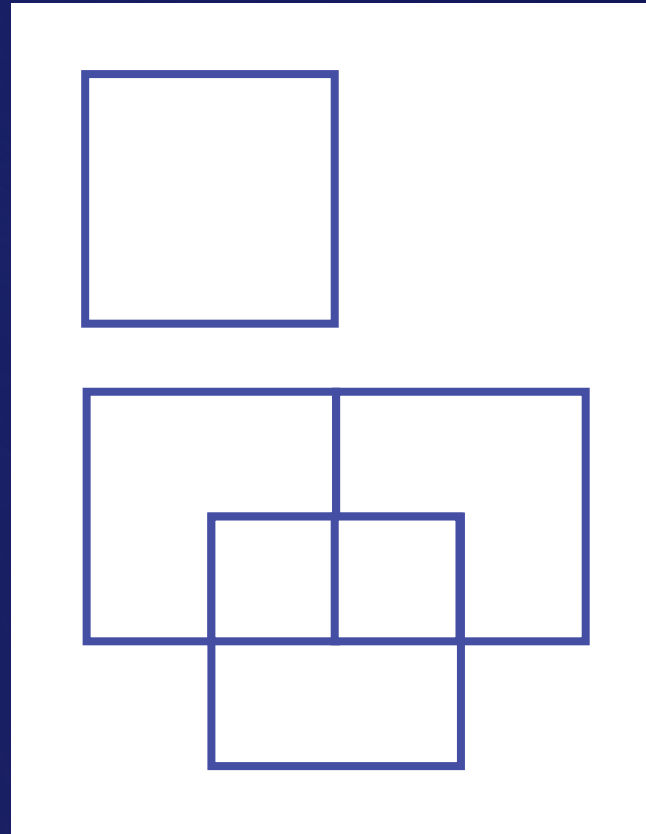
Lesson 4

Question 13



Lesson 4

Question 14



Lesson 4

Question 15

12

Lesson 5

Lesson 5

Question 1

									0
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110

Lesson 5

Question 2

$$\begin{array}{r} \text{addend} \\ \hline 7 \\ \hline \end{array} + \begin{array}{r} \text{addend} \\ \hline 3 \\ \hline \end{array} = \begin{array}{r} \text{sum} \\ \hline 10 \\ \hline \end{array}$$

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 5

Question 3

				difference
10	-	7	=	3
72	-	70	=	2
89	-	80	=	9
92	-	91	=	1

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

10	9	8	7	6	5	4	3	2	1
----	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Lesson 5

Question 4

	H	T	Ones
$7 \times 10 =$		7	0
$70 \times 10 =$	7	0	0
$75 \times 10 =$	7	5	0

1	2	3	4	5	6	7	8	9	10	10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10
1	2	3	4	5	6	7	8	9	10	+ 10

Lesson 5

Question 5

Figure 1



Figure 2



Figure 3



Lesson 5

Question 6

a

racecar

Hannah

5

33

161

Lesson 5

Question 7

A

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B

--	--

C

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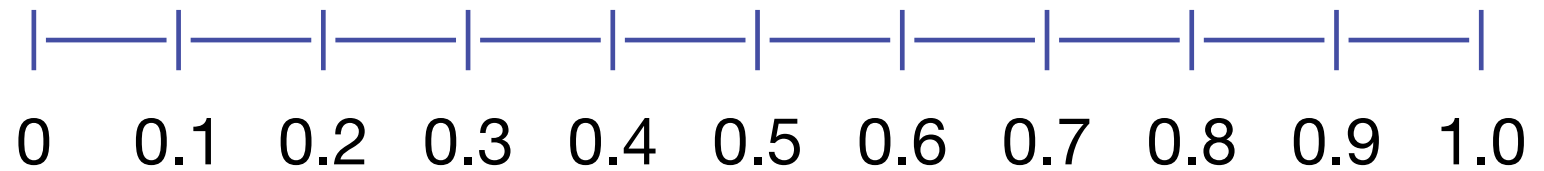
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Lesson 5

Question 8

whole number 5.2 value less than 1
decimal point ↑



Lesson 5

Question 9

Figure 1

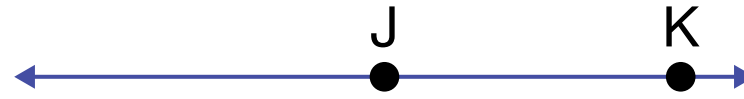


Figure 2

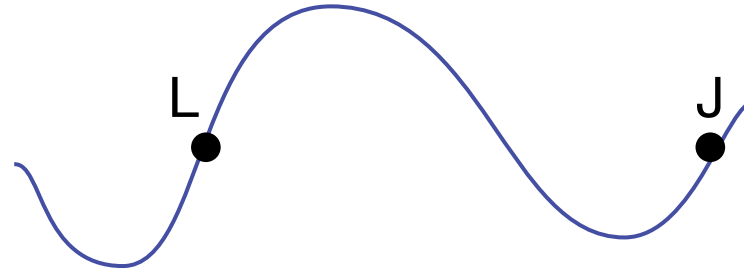


Figure 3



Figure 4

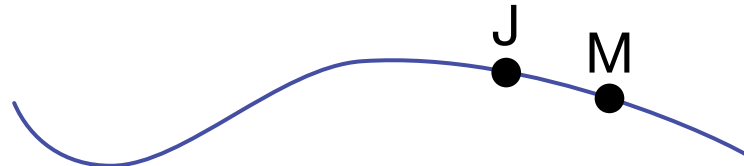


Figure 5



Lesson 5

Question 10

Figure 1

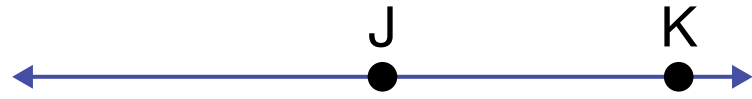


Figure 2

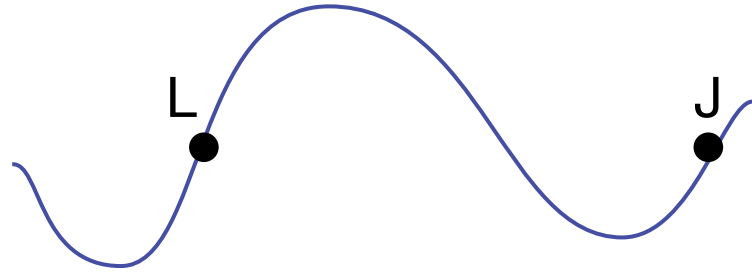


Figure 3



Figure 4

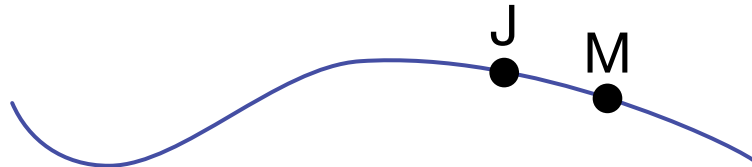


Figure 5









Lesson 5

Question 11

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Name	Tally	Name	Frequency
Barney		Barney	4
Bella	###	Bella	
Coco	### ##	Coco	
Dixie	###	Dixie	9
Dodger	### ###	Dodger	
Leroy	###	Leroy	
Max	###	Max	6
Rocco		Rocco	

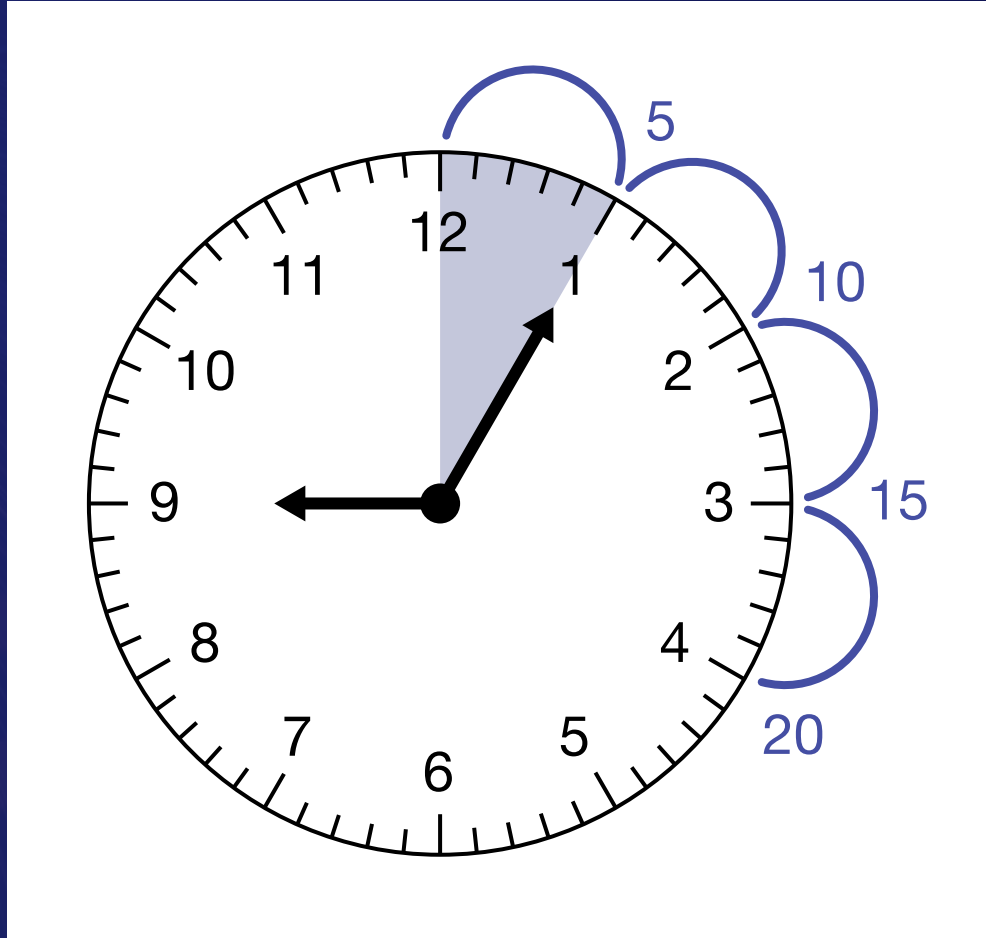
Lesson 5

Question 12

Number of coins in set	Coin value		Set value
5	\$2		\$10
10	\$1		\$10
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50	20c		\$10
100	10c		\$10
200	5c		\$10

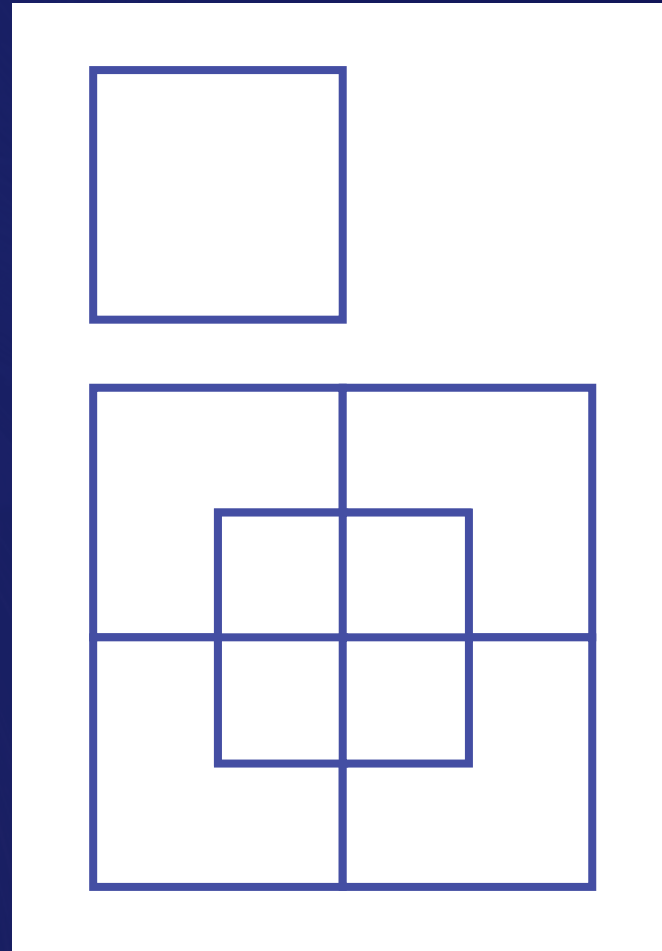
Lesson 5

Question 13



Lesson 5

Question 14



Lesson 5

Question 15

12

*Before the next lesson
students should complete the
Round Task.*